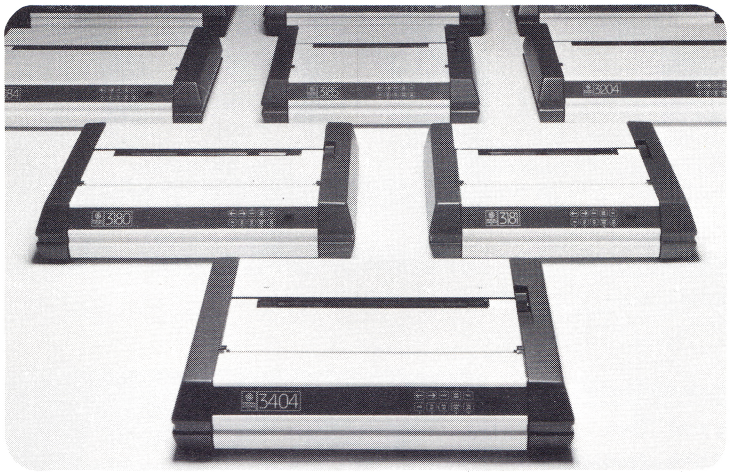
GENERAL ELECTRIC 3000 Series

Single Design Simplicity
Wide Application Capability
Standard and Dual Mode Models



The Complete Output Printer Family

GE 3000 Features

- **Lightweight, compact design**
- **Ultra-precise paper handling**
- **Standard print, near letter quality, dot addressable graphics**
- **Wide range of speeds**
- **High throughput; low maintenance; continuous duty cycles**
- **UPS shippable**

A Full Range of Dual Mode and Standard Print Models

- Speeds from 40 cps to 400 cps, depending on print mode
- Standard print models provide speeds from 180 cps to 400 cps
- Dual mode models provide speeds from 180 cps to 400 cps in standard print mode and 40 cps to 100 cps in word processing mode
- Available in 80 column and 136 column models
- High design commonality
- Applications range from light duty cycle professional data printing to heavy duty, high volume data or word processing

Advanced High Performance Design

- Choice of serial and parallel interfaces
- Reliable, easy loading paper feed; table top or pedestal operation
- Logic seeking, bidirectional printing for high throughput at given speed
- Constant velocity printheads provide significant speed increases at compressed print settings (see specifications)
- Multiple print fonts with true underlines and descenders

Advanced Paper Handling

- Push tractors with friction pinch rollers work with dedicated high torque, high resolution stepper drive motors to achieve precise dot pattern stability — within 4 mils tolerance
- Tractor configuration makes paper loading a breeze — just open the back, engage the tractors, wind paper through
- Close tear-off for reduced forms waste

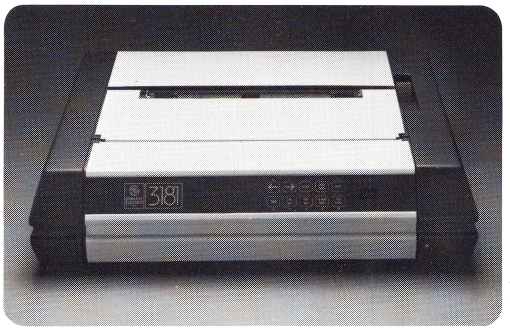
Easy to Use

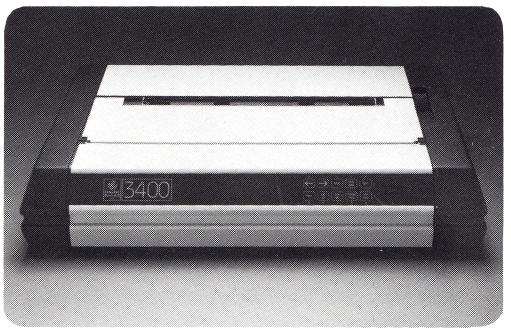
- Advanced control panel designs
- Local and host-selectable configuration parameters — downline loadable; non-volatile
- Built-in local and remote fault diagnostics
- 10, 12, 13.1, 15, 16.7 cpi selectable from control panel

Rugged and Reliable

- Heavy duty output capability in a lightweight package
- Built for continuous duty cycles
- Up to 5000 hr. MTBF depending on model and application
- 300 million character printheads
- No special preventive maintenance necessary
- All printer models can be shipped via UPS for easy, low cost delivery and service

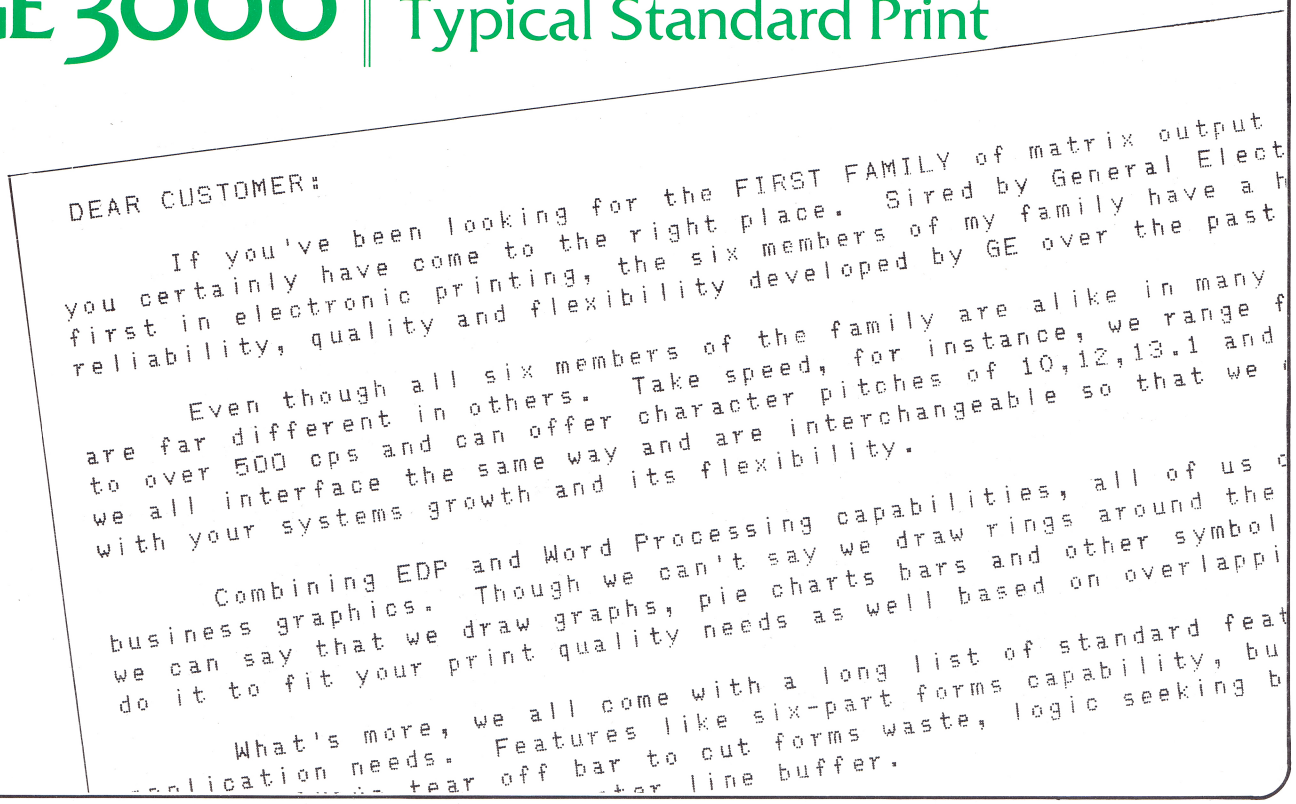
GE 3000 | Standard Print Models





		Nominal cps @ 10 cpi	Lines per minute 4 in. line	8 in. line	12 in. line	13.6 in. line
80 Column Model						
GE 3181	Draft	180	177	107	—	—
136 Column Models						
GE 3180	Draft	180	177	107	77	69
GE 3240	Draft	240	202	130	96	87
GE 3300	EDP	300	231	153	115	104
	Draft	200	186	115	83	75
GE 3400	Draft	400	292	197	151	135

GE 3000 | Typical Standard Print



DEAR CUSTOMER:

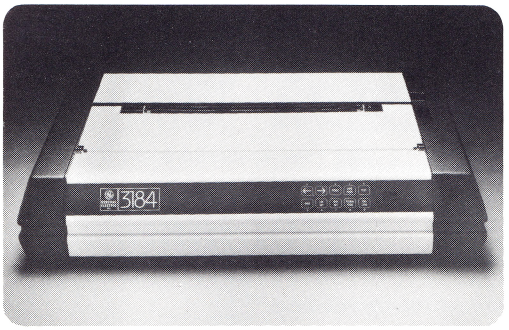
If you've been looking for the FIRST FAMILY of matrix output you certainly have come to the right place. Sired by General Elect first in electronic printing, the six members of my family have a h reliability, quality and flexibility developed by GE over the past

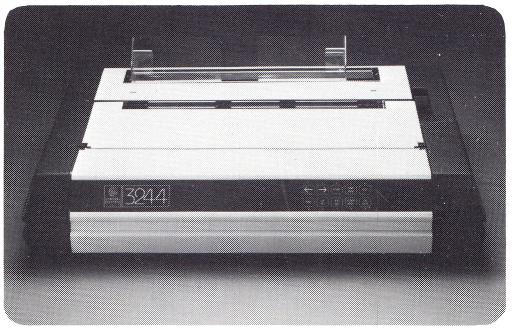
Even though all six members of the family are alike in many are far different in others. Take speed, for instance, we range f to over 500 cps and can offer character pitches of 10,12,13.1 and we all interface the same way and are interchangeable so that we with your systems growth and its flexibility.

Combining EDP and Word Processing capabilities, all of us business graphics. Though we can't say we draw rings around the we can say that we draw graphs, pie charts bars and other symbol do it to fit your print quality needs as well based on overlappi

What's more, we all come with a long list of standard feat application needs. Features like six-part forms capability, bu tear off bar to cut forms waste, logic seeking b ter line buffer.

GE 3000 | Dual Mode Models





Shown with optional single document inserter.

		Nominal cps @ 10 cpi	Lines per minute 4 in. line	8 in. line	12 in. line	13.6 in. line
80 Column Model						
GE 3185	Draft	180	177	107	—	—
	NLQ	45	57	31	—	—
136 Column Models						
GE 3184	Draft	180	177	107	77	69
	NLQ	45	57	31	21	19
GE 3204	Draft	200	186	115	83	75
	NLQ	100	122	67	47	42
GE 3244	Draft	240	202	130	96	87
	NLQ	120	138	78	55	49
GE 3304	EDP	300	231	153	115	104
	Draft	200	186	115	83	75
	NLQ	100	122	67	47	42
GE 3404	Draft	400	292	197	151	135
	NLQ	100	96	58	42	38

GE 3000 | Typical NLQ Print

DEAR CUSTOMER:

If you've been looking for the FIRST FAMILY of matrix output printers, you certainly have come to the right place. Sired by General Electric, who was first in electronic printing, the six members of my family have a heritage of reliability, quality and flexibility developed by GE over the past decade.

Even though all six members of the family are alike in many respects, we are far different in others. Take speed, for instance, we range from 100 cps to over 500 cps and can offer character pitches of 10,12,13.1 and 16.5. But, we all interface the same way and are interchangeable so that we can help you with your systems growth and its flexibility.

Combining EDP and Word Processing capabilities, all of us offer simple business graphics. Though we can't say we draw rings around the competition, we can say that we draw graphs, pie charts bars and other symbols and we can do it to fit your print quality needs as well based on overlapping dot patter

What's more, we all come with a long list of standard features to meet application needs. Features like six-part forms capability, built-in tracto ...r off bar to cut forms waste, logic seeking bi-directional ...buffer.

GE 3000 | Options

Available
- Centronics Parallel Interface
- Pedestal

1st Quarter '83
- Single Document Inserter

2nd Quarter '83
- 2, or 8K Extended Line Buffers
- Downline Loadable Character Sets
- Multi Color Printing
  - — Red/Black
  - — Four Color
  - — Seven Color
- Automatic Sheet Feeder
- Dot Addressable 144 × 144 dot/inch Graphics

3rd Quarter '83
- Current Loop
- Additional Interfaces
  - — 19.2 kilobaud Transmission
  - — Qume/Diablo Serial

GE 3000 | Specifications

DATA TRANSMISSION

Code: USASCII/ISO 7 bits, plus optional parity

Interface: RS232C Serial (7-wire)
Optional: Centronics parallel

Speed: Serial: 110/300/600/1200/2400/4800/9600 Baud (Optional 19,200)
Parallel: 100K char./sec.

PRINTING

Type: Matrix Impact

Speeds: See inside

Technique: bi-directional, logic seeking

Head: GE 3180, 3181, 3184, 3185, 3240, 3300 9 Wire array
GE 3204, 3244, 3304 Two 9 wire arrays, staggered
GE 3400, 3404 Two 9 wire arrays, parallel

Font: 96 graphics (ASCII/ISO) plus 16 National character sets, plus optional additional character sets.

Character Formation:

	Draft	NLQ	EDP†
10, 12, 13.1 cpi			
	5 of 9 Dots wide	9 Dots wide	4 of 10 Dots wide
	9 Dots high	18 Dots high	9 Dots high
15, 16.7 cpi			
	4 of 7 Dots wide	7 Dots wide	NA
	7 Dots high	14 Dots high	NA

Character Spacing: 10, 12, 13.1, 15, 16.7 per inch

Line Spacing: 3, 4, 6, 8, 12 per inch or by 1/144th in. increments

Print Line: GE 3181, 3185: 8 inch (203mm)
All other models 13.6 (345mm)

Dot Addressable Graphics: 72 × 72 dpi.

Buffer: 512 characters

Ribbon: Cartridge, nylon 3/8" × 43 yd. (9.5mm × 39m)
6×10^6 character life

Test: Local and remote test and diagnostics

†EDP Characters: 10 cpi only

PRINT CONTROL

Margins: Left & right, any position
Horizontal Tabs: Absolute (22 positions) or relative
Top of Form: Form lengths to 22 in. (559mm)
Vertical Tabs: Absolute (12 positions) or relative
Bottom of Form: Any position provides auto-perforation skip over
Auto CR, LF: Avoids loss of received data

PAPER HANDLING

Paper Drive: Dual precision 6-pin, push tractors combined with adjustable pinch feed friction rollers

Paper Width: GE 3181, 3185: 3.2 to 11.5 in. (81 to 292mm)
All other models: 3.2 to 15.5 in. (81 to 394mm)

Number of Copies: Original plus 5 (0.025 in. max)

PRINTER PARAMETERS

Locally Selectable: At the printer

Remotely Selectable: By escape (ESC) sequences (ANSI × 3.64)

Retention: By battery-supported memory (multi-year life)

INFORMATION DISPLAY

Displays: Status of printer parameters
Diagnostic results and alarms

PHYSICAL

Size:	136 col. high profile			136 col. low profile			80 col. low profile		
	H	W	D	H	W	D	H	W	D
In.	6.3	25	16.1	5	24.7	15.6	5	20.7	15.6
mm	161	636	409	126	627	396	126	526	396

Weight: GE 3181: 21 lbs. (9.5 Kg)
other models: 23 lbs. (10.4 Kg)

ELECTRICAL

Nominal 100-120 VAC (+10%-15%) or 200-240 VAC (+10%-15%)
Internally selectable, 48-65 Hz

Power: 180 watts

Operating Environment

Temperature: +32° to +110°F (0° to +43°C)
Humidity: 5 to 95% relative

DATA COMMUNICATION PRODUCTS
BUSINESS DEPARTMENT
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GENERAL ELECTRIC